



MARATHON PETROLEUM L.L.C.

ST PAUL RAIL YARD

TKDA PROJ. NO. 13518.001

DRAWING INDEX

SHEET	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS & DETAILS
3	SITE PLAN
4	FIRE LOOP/LIGHTING PLAN
5-7	TRACK PLAN AND PROFILE
8-10	TURF ESTABLISHMENT AND EROSION CONTROL
11-12	ROAD PLAN AND PROFILE
13-20	CROSS SECTIONS

THIS PLANSET CONTAINS 20 SHEETS

LEGEND

— UGP — — — UGP — — —	UNDERGROUND ELECTRIC	[M]	GAS METER
— UT — — — UT — — —	UNDERGROUND TELEPHONE	⋈	VALVE
— T — — — T — — —	ABOVEGROUND TELEPHONE	⚡	HYDRANT
— IW — — — IW — — —	INDUSTRIAL SEWER	⊙	WELL
— >> — — — >> — — —	STORM SEWER	⊕	STORM MANHOLE
— > — — — > — — —	SANITARY SEWER	⊙	SANITARY MANHOLE
— W — — — W — — —	WATER MAIN	⊕	INDUSTRIAL MANHOLE
— G — — — G — — —	NATURAL GAS	○	POST/BOLLARD
— DFO — — — DFO — — —	ABOVEGROUND DIESEL FUEL OIL	—	SIGN
— DFO — — — DFO — — —	UNDERGROUND DIESEL FUEL OIL	⊙	IRON PIPE MONUMENT
— RO — — — RO — — —	UNDERGROUND RECOVERED OIL	⊗	TREE
— LO — — — LO — — —	ABOVEGROUND LUBEOIL	—	GUY WIRE
— LO — — — LO — — —	UNDERGROUND LUBEOIL	—	ELECTRICAL PANEL
— O — — — O — — —	CHAIN LINK FENCE	⚙	LIGHT POLE
— A — — — A — — —	UG COMPRESSED AIR	⊙	POWER POLE
— FO — — — FO — — —	FIBER OPTIC	⚡	TELEPHONE PEDESTAL
— OHP — — — OHP — — —	OVERHEAD POWER		
— ○ — — — ○ — — —	FENCE		
-----	RIGHT OF WAY		

PROJECT
LOCATION

CITY OF ST PAUL

EXISTING UTILITY LOCATIONS

THE CONTRACTOR SHALL VERIFY ALL EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. ALL INPLACE UTILITIES MAY NOT BE SHOWN ON THIS PLAN & THOSE THAT ARE SHOWN, MAY NOT BE SHOWN IN THE EXACT LOCATIONS.

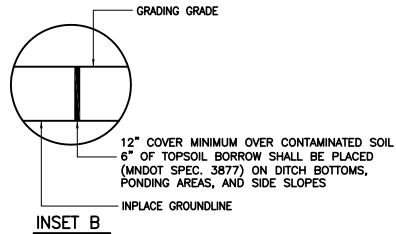
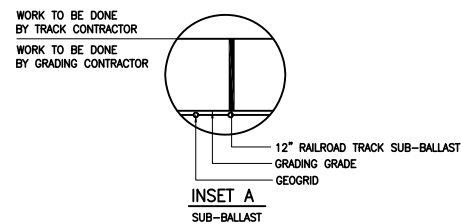
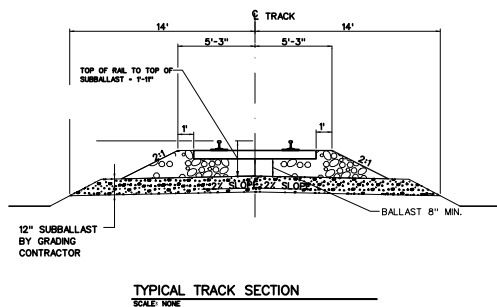
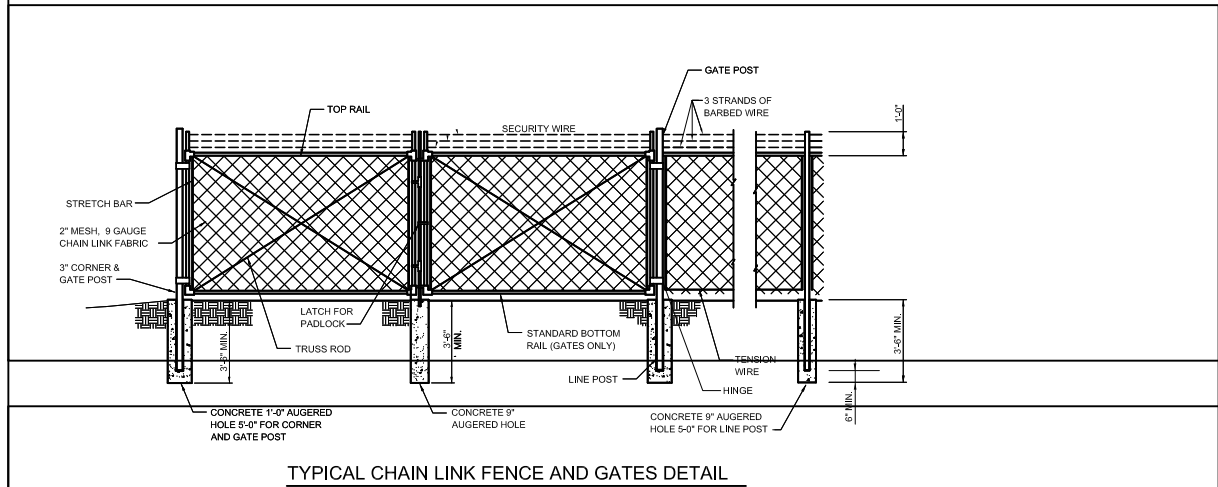
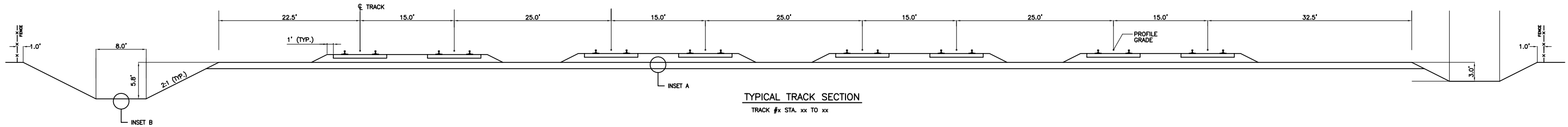
THE SUBSURFACE UTILITY INFORMATION IN THIS PLANSET IS UTILITY QUALITY LEVELS "C" & "D" AS DEFINED IN ASCE "STANDARD GUIDELINE FOR THE DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

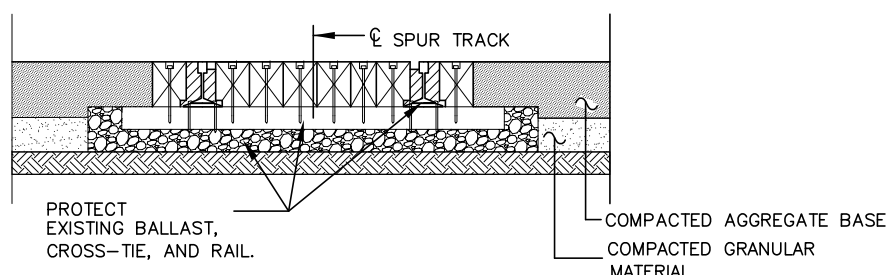
DATE _____ LIC. NO. _____

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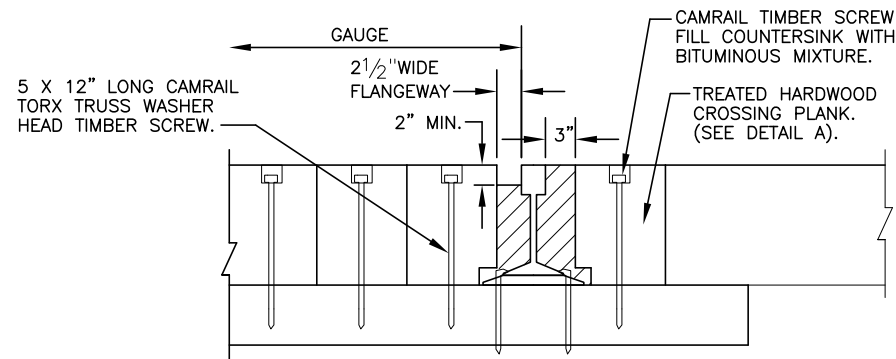
GOPHER STATE ONE CALL: 1-800-252-1166



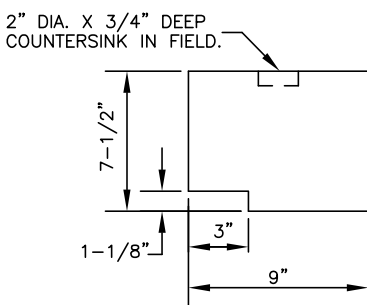
NOTE: ALL GRADING TO CONFORM WITH CURRENT MN/DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION



SECTION A-A
NO SCALE

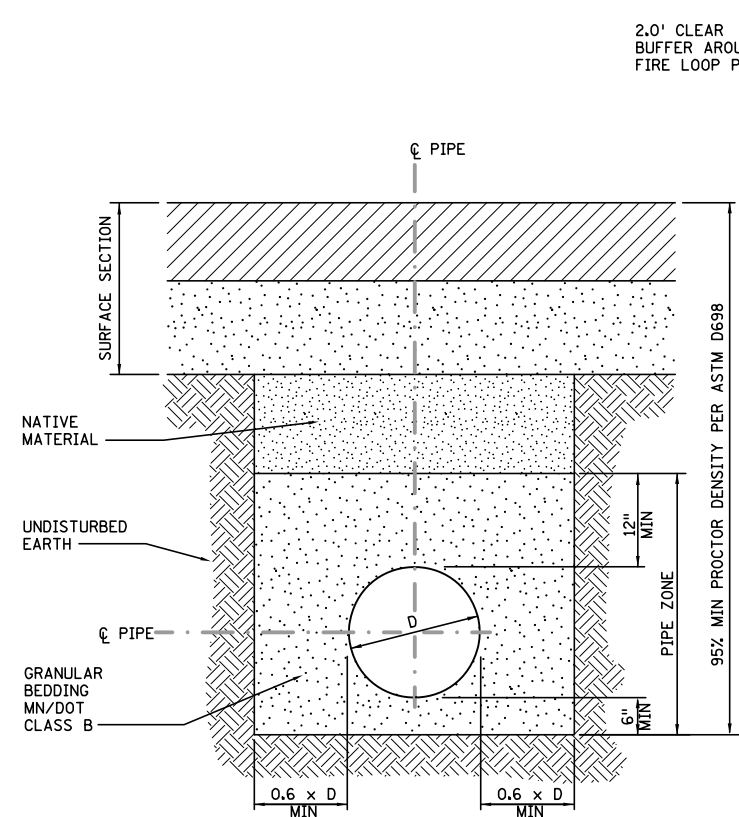


SECTION B-B
NO SCALE



DETAIL A
NO SCALE

NOTES:
DIMENSIONS ARE BASED UPON THE RAIL SECTION (RAIL POUNDAGE) TYPES LISTED IN THE CROSSING PLANK SCHEDULE.



TRENCH NOTES:

1. UNSTABLE TRENCH MATERIALS AND/OR OVER EXCAVATION OF TRENCH WILL REQUIRE BEDDING FOUNDATION AS SHOWN IN TRENCH SECTION OF THIS SHEET. EXCAVATE UNSUITABLE MATERIALS AS DIRECTED BY THE PROJECT ENGINEER.
2. TRENCH WIDTH SHALL BE KEPT TO A MINIMUM NECESSARY TO INSTALL THE PIPE IN A SAFE MANNER. IN ALL CASES TRENCHES MUST BE OF SUFFICIENT WIDTH TO ALLOW FOR PROPER JOINING OF PIPE AND COMPACTION OF THE BACKFILL MATERIAL ALONG SIDES OF PIPE. MINIMUM TRENCH WIDTH, IN THE PIPE ZONE, MUST PROVIDE A CLEAN WORKING SPACE OF 12" ON EACH SIDE OF THE BARREL.
3. PLACE ALL PIPE BEDDING MATERIALS IN A UNIFORM MANNER WITH THOROUGHLY COMPACTED LIFTS NOT TO EXCEED 6" UP TO 12" ABOVE TOP OF PIPE. ALL BACKFILL MATERIAL SHALL ALSO BE THOROUGHLY COMPACTED.
4. BACKFILL TRENCH ABOVE THE PIPE ZONE TO THE SPECIFIED GRADE, OR AS SHOWN ON THE PLANS, IN LIFTS OF 6 INCH LOOSE TO 2 FEET LOOSE DEPTH DEPENDING ON COMPACTION EQUIPMENT AND MATERIALS.
5. TRENCHING METHODS SHALL COMPLY WITH OSHA REQUIREMENTS.

PIPE BACKFILL DETAIL
SCALE: NONE

FIELD BOOK:
Plot Date: 01/12/2009
Drawing name: K:\p-m\Marathon\ash11551601\Rail\bases\LD_Marathon-CP\oughsh02.dwg
User: jeh

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED TRK	DRAWN PJW
CHECKED JEH	DATE
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA	
LIC. NO.	

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MARATHON PETROLEUM
ST. PAUL PARK, MN

ST PAUL RAIL YARD
TYPICAL SECTIONS/DETAILS

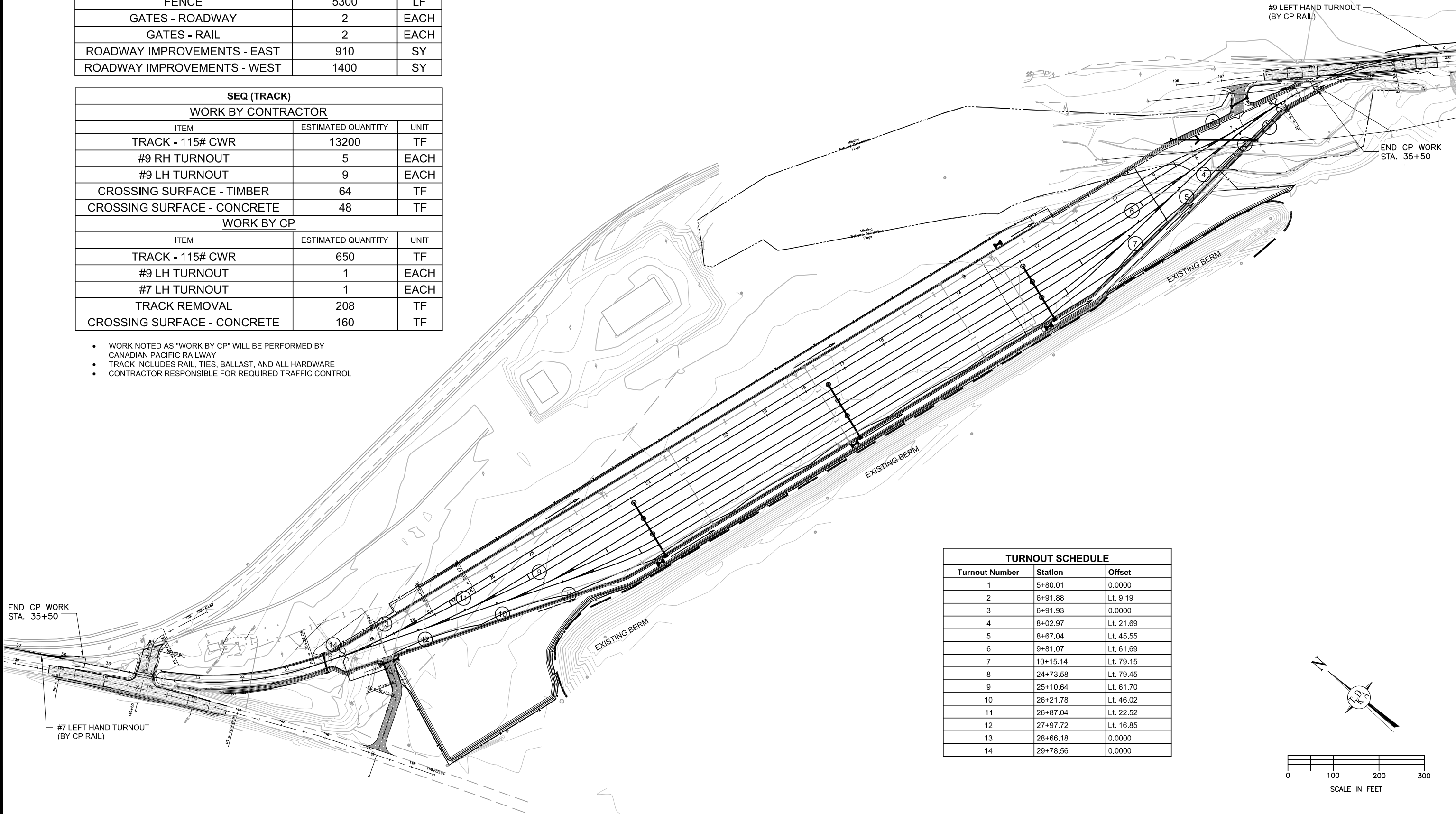
PROJECT NO.
13518.001
RECORD NO.

SHEET NO. 2 OF 20 SHEETS

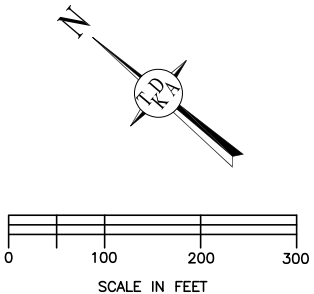
SEQ (GRADING)		
ITEM	ESTIMATED QUANTITY	UNIT
FENCE	5300	LF
GATES - ROADWAY	2	EACH
GATES - RAIL	2	EACH
ROADWAY IMPROVEMENTS - EAST	910	SY
ROADWAY IMPROVEMENTS - WEST	1400	SY

SEQ (TRACK)		
WORK BY CONTRACTOR		
ITEM	ESTIMATED QUANTITY	UNIT
TRACK - 115# CWR	13200	TF
#9 RH TURNOUT	5	EACH
#9 LH TURNOUT	9	EACH
CROSSING SURFACE - TIMBER	64	TF
CROSSING SURFACE - CONCRETE	48	TF
WORK BY CP		
ITEM	ESTIMATED QUANTITY	UNIT
TRACK - 115# CWR	650	TF
#9 LH TURNOUT	1	EACH
#7 LH TURNOUT	1	EACH
TRACK REMOVAL	208	TF
CROSSING SURFACE - CONCRETE	160	TF

- WORK NOTED AS "WORK BY CP" WILL BE PERFORMED BY CANADIAN PACIFIC RAILWAY
- TRACK INCLUDES RAIL, TIES, BALLAST, AND ALL HARDWARE
- CONTRACTOR RESPONSIBLE FOR REQUIRED TRAFFIC CONTROL



TURNOUT SCHEDULE		
Turnout Number	Station	Offset
1	5+80.01	0.0000
2	6+91.88	Lt. 9.19
3	6+91.93	0.0000
4	8+02.97	Lt. 21.69
5	8+67.04	Lt. 45.55
6	9+81.07	Lt. 61.69
7	10+15.14	Lt. 79.15
8	24+73.58	Lt. 79.45
9	25+10.64	Lt. 61.70
10	26+21.78	Lt. 46.02
11	26+87.04	Lt. 22.52
12	27+97.72	Lt. 16.85
13	28+66.18	0.0000
14	29+78.56	0.0000



FIELD BOOK:
Plot Date: 01/12/2009
Drawing Name: K:\m\Marathon\ash\13518001\Rail\bases\LDL_Marathon-CP\Ploughs\h3.dwg
User: tkda

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED TRK	DRAWN PJW	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA
CHECKED JEH	DATE	

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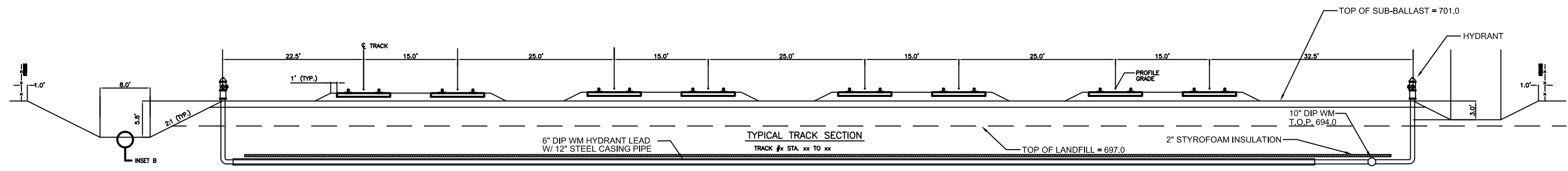
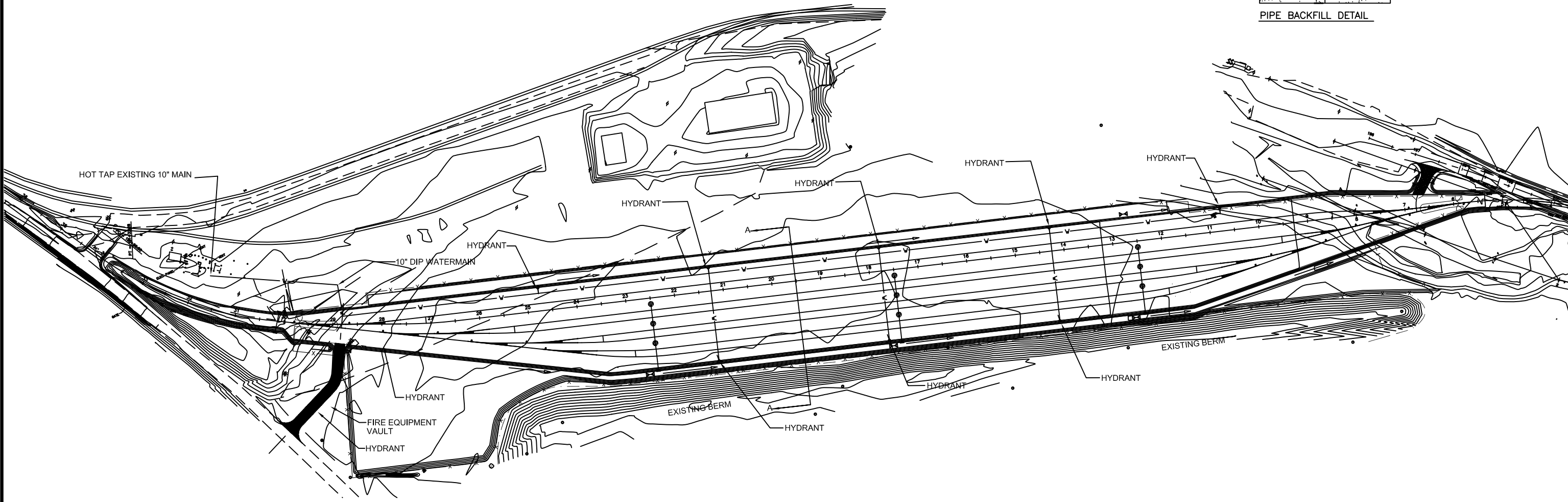
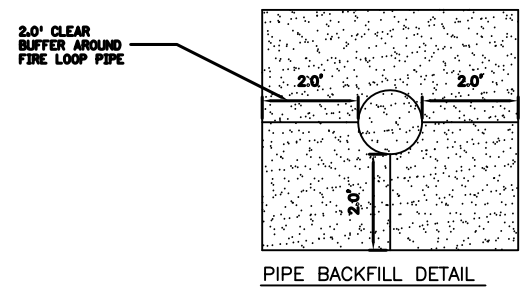
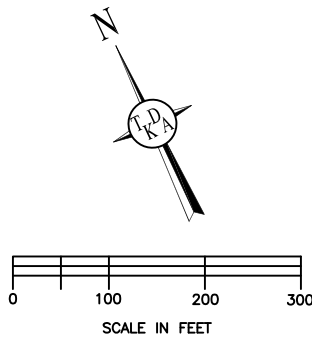
MARATHON PETROLEUM
ST. PAUL PARK, MN

ST PAUL RAIL YARD
SITE PLAN

SHEET NO. 3 OF 20 SHEETS

PROJECT NO.
13518.001

RECORD NO.



FIELD BOOK:
Plot Date: 01/23/2009
Drawing Name: K:\gim\Marathon\ash\1351801\Railbases\LDL_Marathon-CP\logshd.ctb
User: jeh@tkda.com

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED KEK	DRAWN PSG
CHECKED JEH	DATE 10/2/08
LIC. NO. 43955	

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

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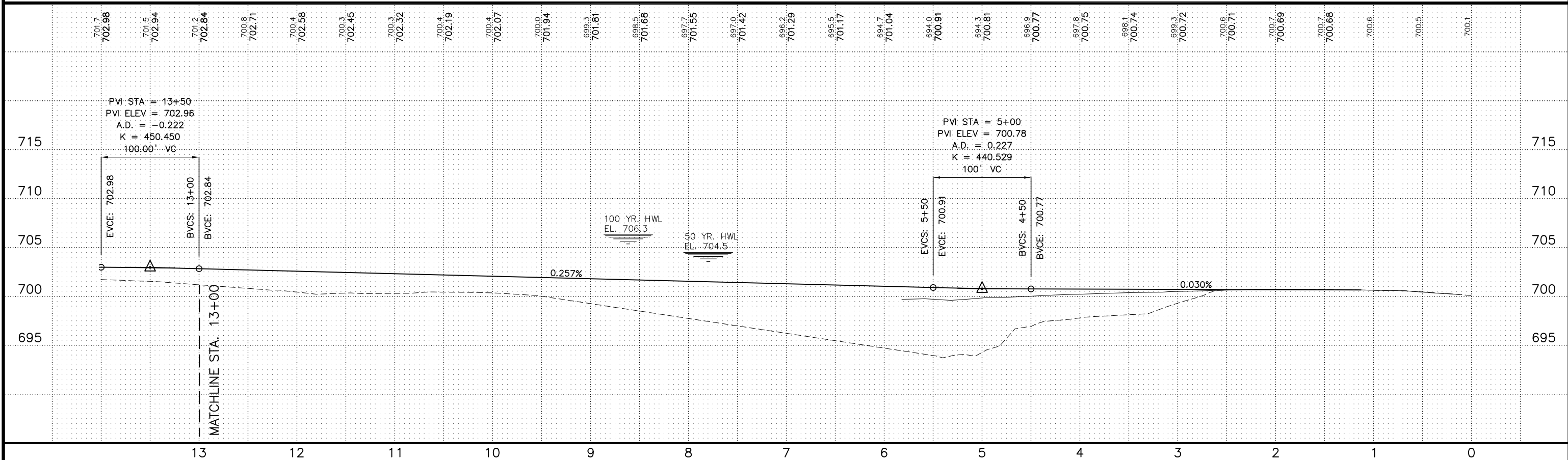
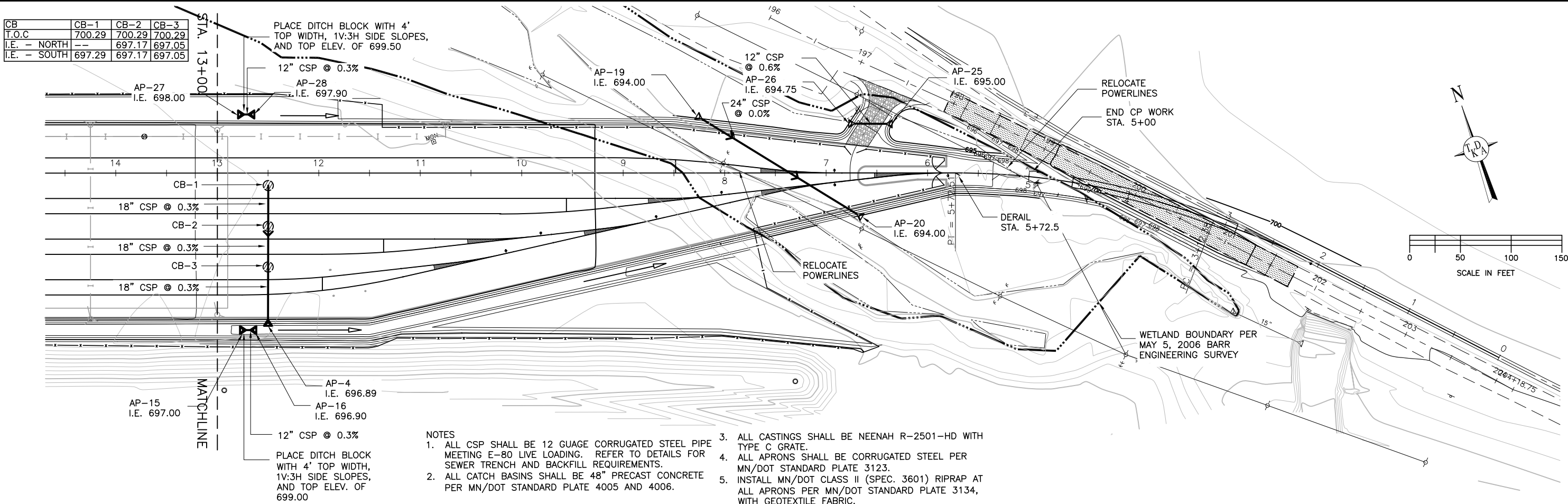
MARATHON PETROLEUM
ST. PAUL PARK, MN

ST PAUL RAIL YARD
FIRE HYDRANT WATERMAIN PLAN

SHEET NO. 4 OF 20 SHEETS

PROJECT NO. 13518.001
RECORD NO.

CB	CB-1	CB-2	CB-3
T.O.C	700.29	700.29	700.29
I.E. - NORTH	697.17	697.05	
I.E. - SOUTH	697.29	697.17	697.05



FIELD BOOK:
Plot Date: 01/23/2009
Drawing Name: K:\m\Marathon\13518001\Rail\Bases\LDG_Marathon-CP\dwg\p01.dwg
User: jeh

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED TRK	DRAWN PJW
CHECKED JEH	
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA	
DATE _____ LIC. NO. _____	

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ST. PAUL PARK, MN

ST PAUL RAIL YARD
EAST YARD LEAD
PLAN AND PROFILE

SHEET NO. 5 OF 20 SHEETS

PROJECT NO.
13518.001
RECORD NO.

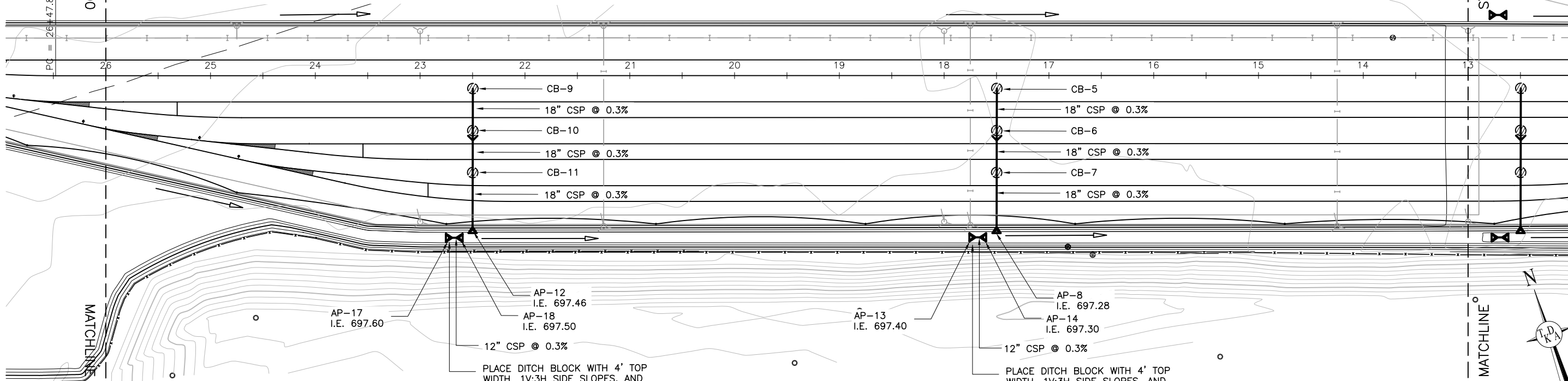
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Plot Date: 01/23/2009
Drawing Name: K:\p\m\Marathon\ash\1351801\Rail\bases\LD0_Marathon-CP\dwg\p02.dwg
User: tkudders

STA. 26+00

NOTES

1. ALL CSP SHALL BE 12 GAUGE CORRUGATED STEEL PIPE MEETING E-80 LIVE LOADING. REFER TO DETAILS FOR SEWER TRENCH AND BACKFILL REQUIREMENTS.
2. ALL CATCH BASINS SHALL BE 48" PRECAST CONCRETE PER MN/DOT STANDARD PLATE 4005 AND 4006.
3. ALL CASTINGS SHALL BE NEENAH R-2501-HD WITH TYPE C GRATE.
4. ALL APRONS SHALL BE CORRUGATED STEEL PER MN/DOT STANDARD PLATE 3123.
5. INSTALL MN/DOT CLASS II (SPEC. 3601) RIPRAP AT ALL APRONS PER MN/DOT STANDARD PLATE 3134, WITH GEOTEXTILE FABRIC.

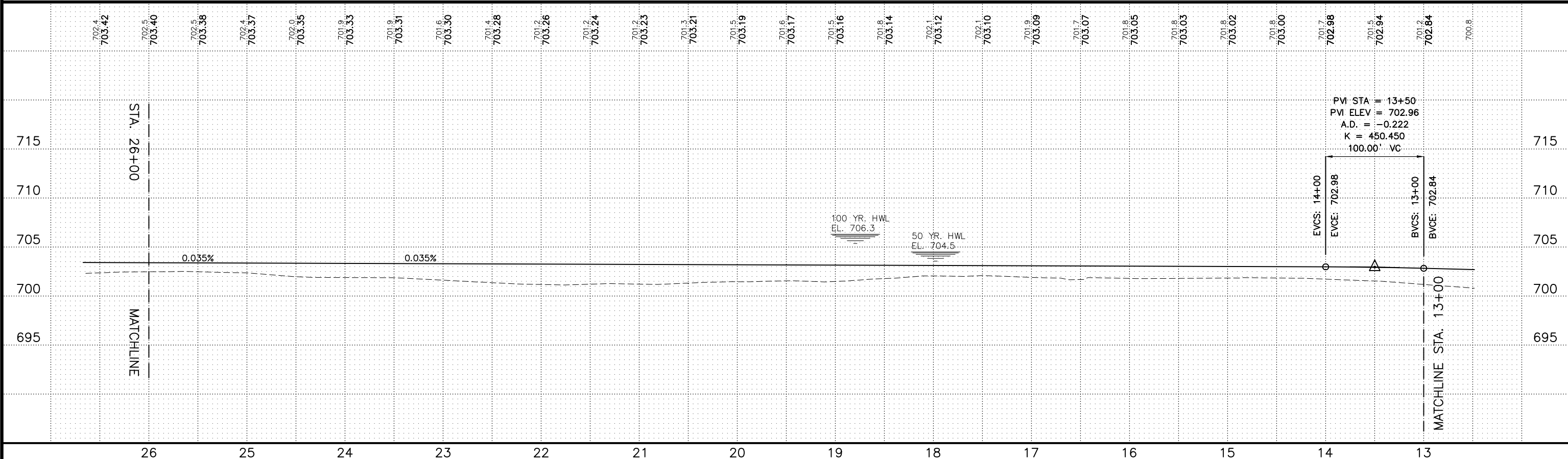
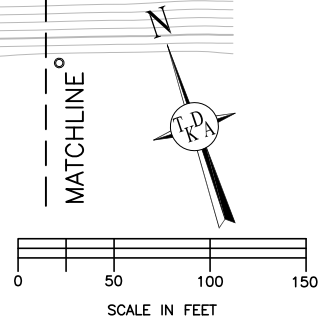
STA. 13+00



T.O.C	CB-9	CB-10	CB-11	CB-5	CB-6	CB-7
I.E. - NORTH	700.86	700.86	700.86	700.68	700.68	700.68
I.E. - SOUTH	697.86	697.74	697.62	697.56	697.56	697.44

PLACE DITCH BLOCK WITH 4' TOP WIDTH, 1V:3H SIDE SLOPES, AND TOP ELEV. OF 699.60

PLACE DITCH BLOCK WITH 4' TOP WIDTH, 1V:3H SIDE SLOPES, AND TOP ELEV. OF 699.40.



NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED TRK	DRAWN PJW
CHECKED JEH	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA DATE _____ LIC. NO. _____



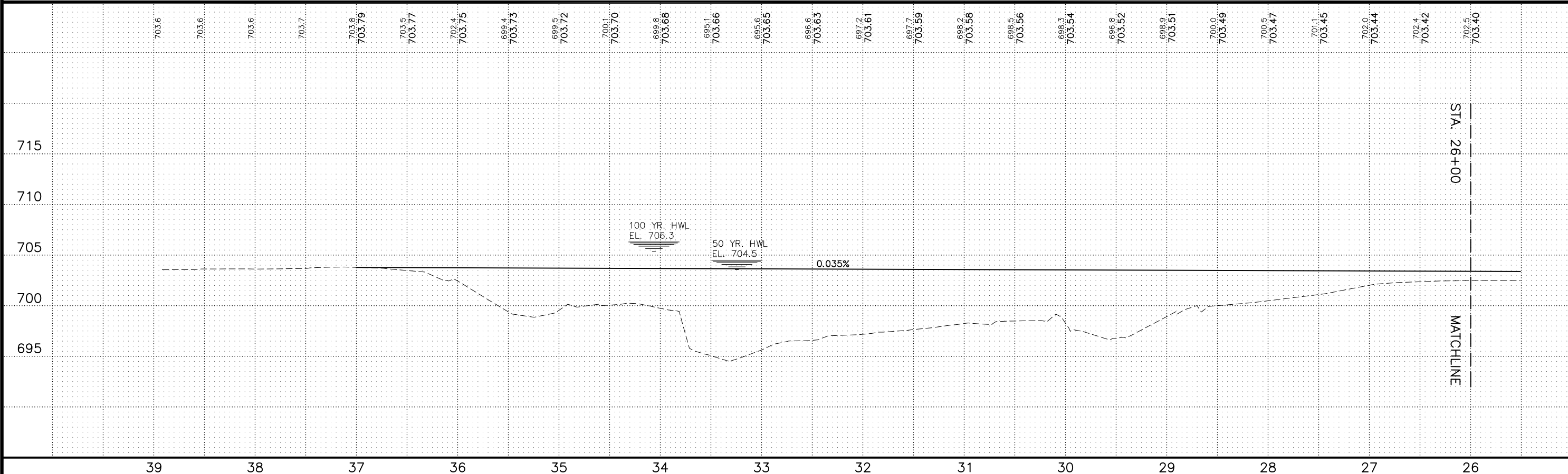
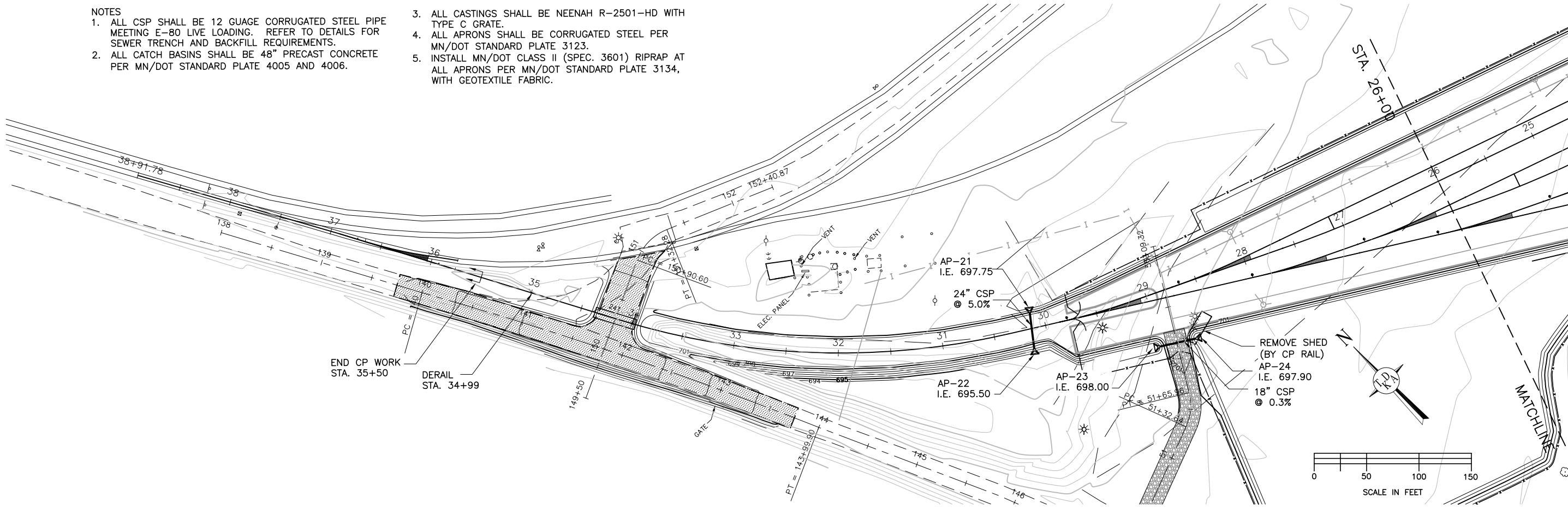
MARATHON PETROLEUM
ST. PAUL PARK, MN

ST PAUL RAIL YARD
YARD
PLAN AND PROFILE
SHEET NO. 6 OF 20 SHEETS

PROJECT NO.
13518.001
RECORD NO.

- NOTES
1. ALL CSP SHALL BE 12 GAUGE CORRUGATED STEEL PIPE MEETING E-80 LIVE LOADING. REFER TO DETAILS FOR SEWER TRENCH AND BACKFILL REQUIREMENTS.
 2. ALL CATCH BASINS SHALL BE 48" PRECAST CONCRETE PER MN/DOT STANDARD PLATE 4005 AND 4006.

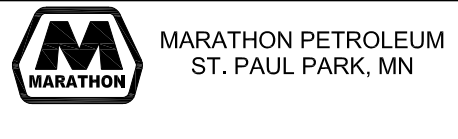
3. ALL CASTINGS SHALL BE NEENAH R-2501-HD WITH TYPE C GRATE.
4. ALL APRONS SHALL BE CORRUGATED STEEL PER MN/DOT STANDARD PLATE 3123.
5. INSTALL MN/DOT CLASS II (SPEC. 3601) RIPRAP AT ALL APRONS PER MN/DOT STANDARD PLATE 3134, WITH GEOTEXTILE FABRIC.



FIELD BOOK:
Plot Date: 01/23/2009
Drawing Name: K:\m\Marathon\13518001\Rail\Bases\LD0_Marathon-CP\Profile\p03.dwg
User: jeh@tkda.com

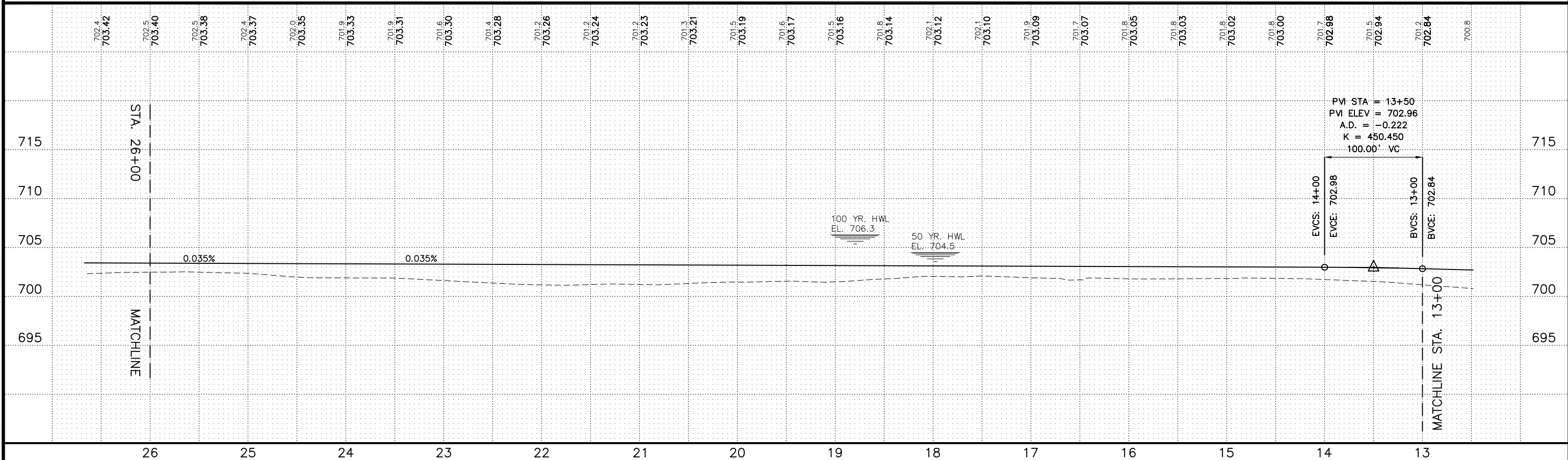
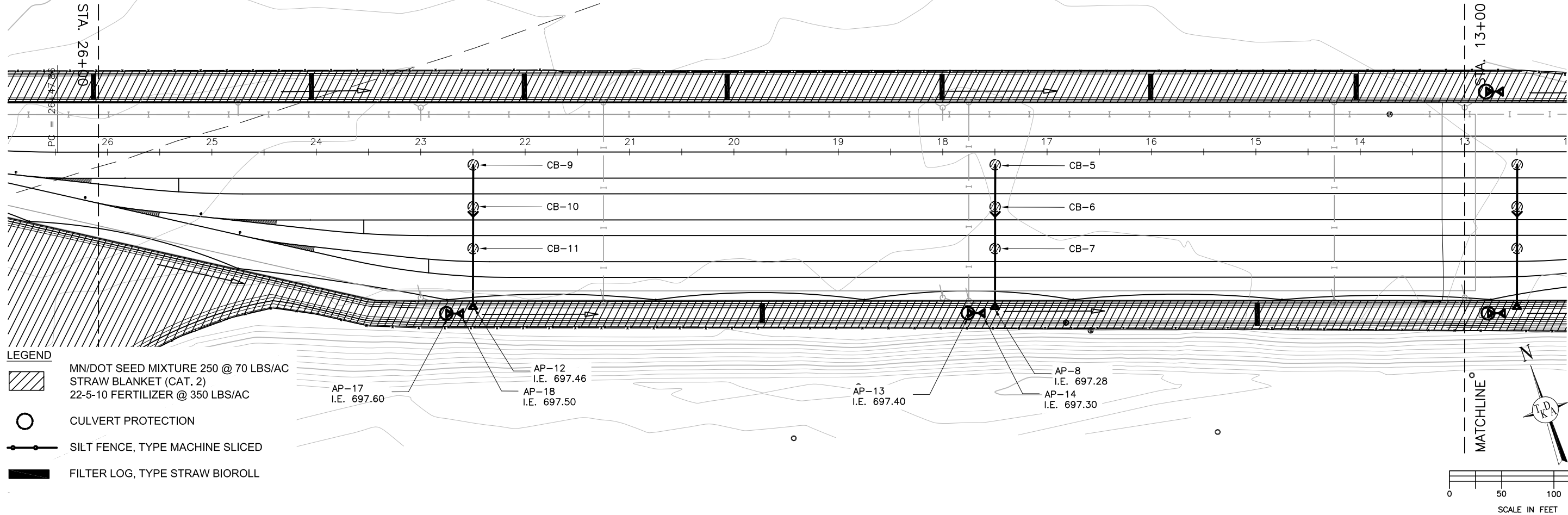
NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED TRK	DRAWN PJW
CHECKED JEH	DATE
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA	
LIC. NO.	



ST PAUL RAIL YARD WEST YARD LEAD PLAN AND PROFILE
SHEET NO. 7 OF 20 SHEETS

PROJECT NO. 13518.001
RECORD NO.



FIELD BOOK:
Plot Date: 01/23/2009
Drawing Name: E:\p\m\Marathon\ahh\1351801\Rail\bases\LD0_Marathon-CP\dwg\erodcn02.dwg
User: jeh@tkda.com

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED TRK	DRAWN PJW
CHECKED JEH	DATE
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA	
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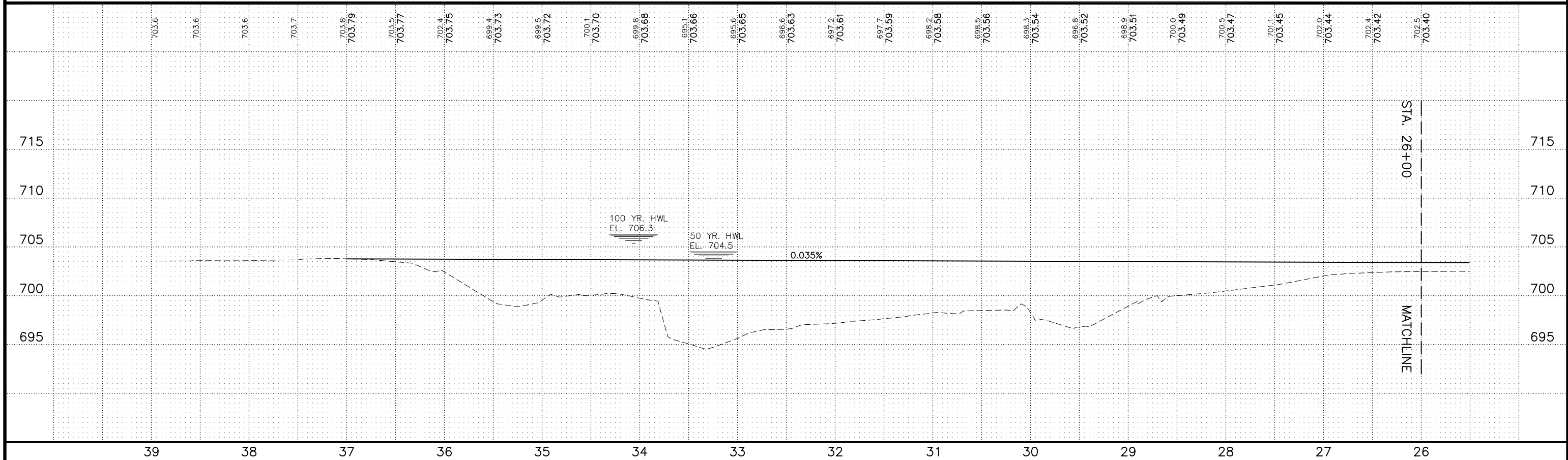
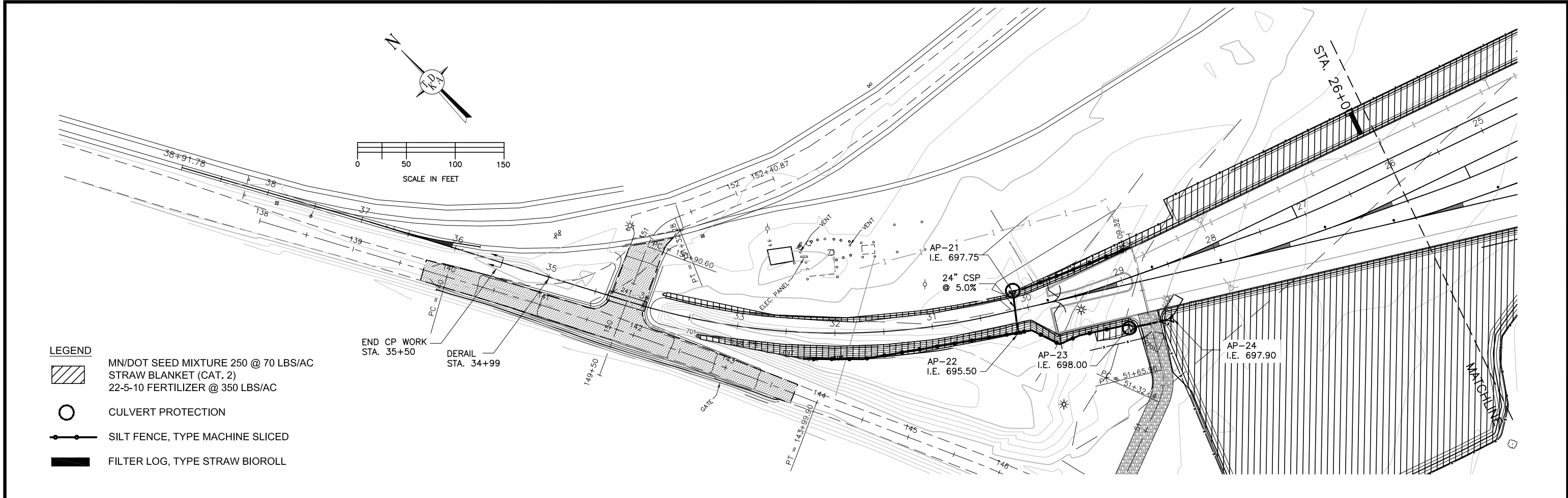
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MARATHON
MARATHON PETROLEUM
ST. PAUL PARK, MN

ST PAUL RAIL YARD
YARD
TURF ESTABLISHMENT/EROSION CONTROL
SHEET NO. 9 OF 20 SHEETS

PROJECT NO. 13518.001
RECORD NO.

FIELD BOOK:
Plot Date: 01/23/2009
Drawing Name: K:\p\marathon\stn\13518001\Rail\bases\LD0_Marathon-CP\long\erod03.dwg
User: jeh@tkda.com



DESIGNED TRK				DRAWN PJW				I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA				PROJECT NO. 13518.001			
CHECKED JEH				DATE				LIC. NO.				RECORD NO.			
NO.				DATE				BY				DESCRIPTION OF REVISIONS			

TKDA

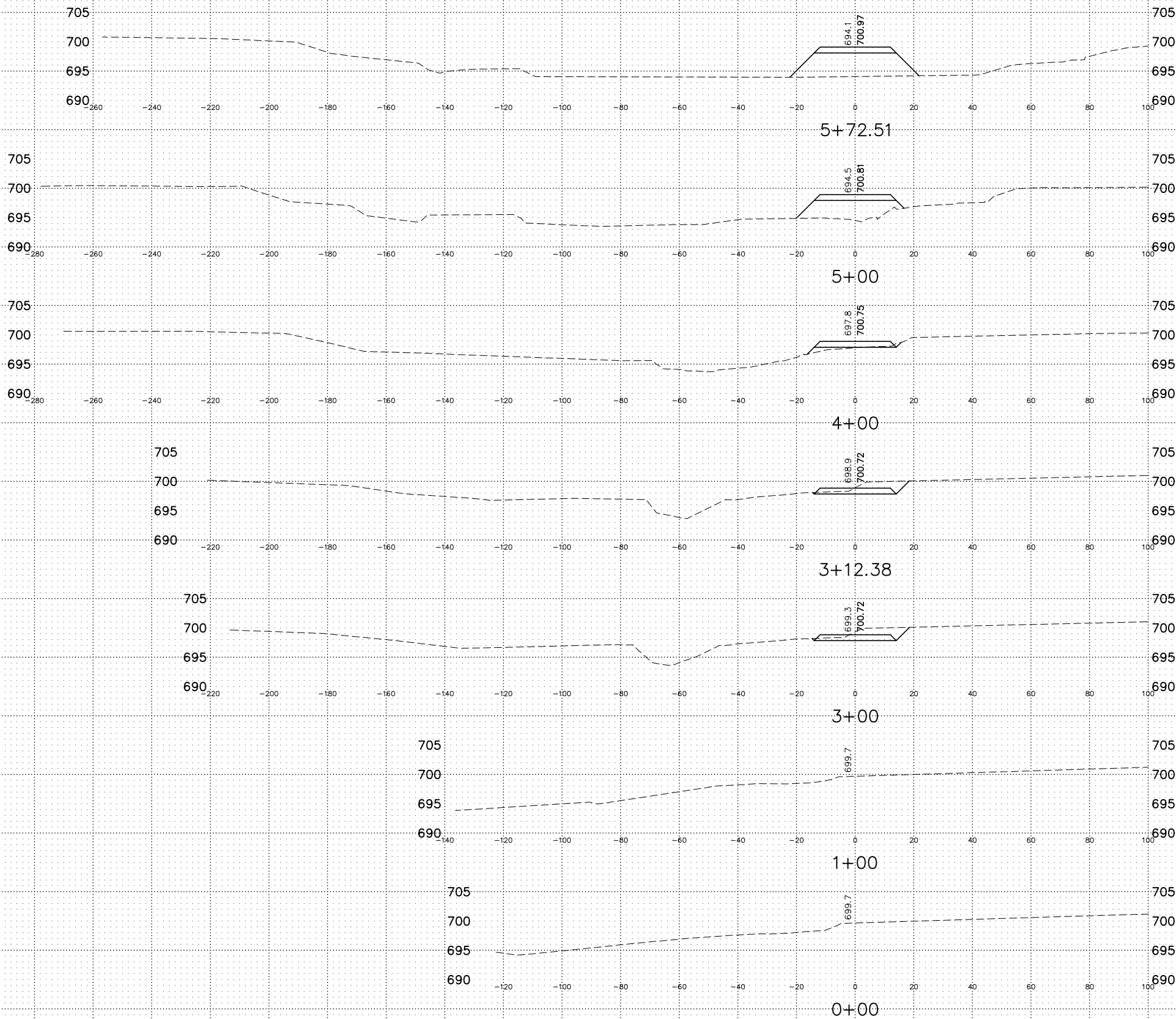
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M

MARATHON

MARATHON PETROLEUM
ST. PAUL PARK, MN

ST PAUL RAIL YARD
WEST YARD LEAD
TURF ESTABLISHMENT/EROSION CONTROL
SHEET NO. 10 OF 20 SHEETS



FIELD BOOK:
Plot Date: 01/12/2009
Drawing Name: C:\p\m\Marathon\ash\1351801\Rail\bases\LD0_Marathon-CP\wg\XST1.dwg
User: jeh@tkda.com

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED	DRAWN
TRK	PJW
CHECKED	
JEH	

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE _____ LIC. NO. _____



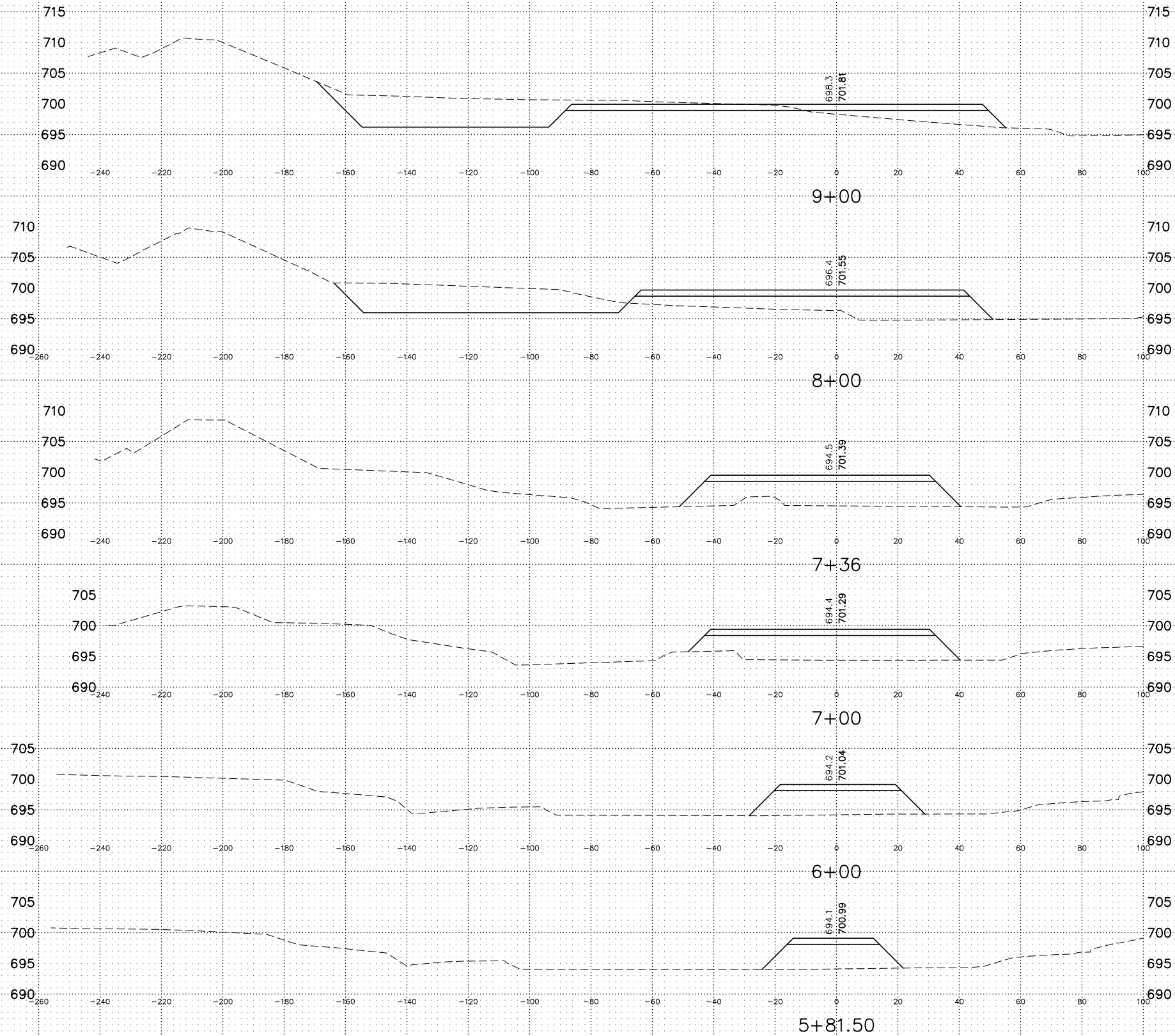
MARATHON PETROLEUM
ST. PAUL PARK, MN

ST PAUL RAIL YARD
CROSS SECTIONS

SHEET NO. 13 OF 20 SHEETS

PROJECT NO. 13518.001
RECORD NO.

FIELD BOOK:
Plot Date: 01/12/2009
Drawing Name: C:\p-m\Marathon\ash\1351801\Rail\bases\LD0_Marathon-CP\wg\XS2.dwg
User: jeh



NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED TRK	DRAWN PJW
CHECKED JEH	
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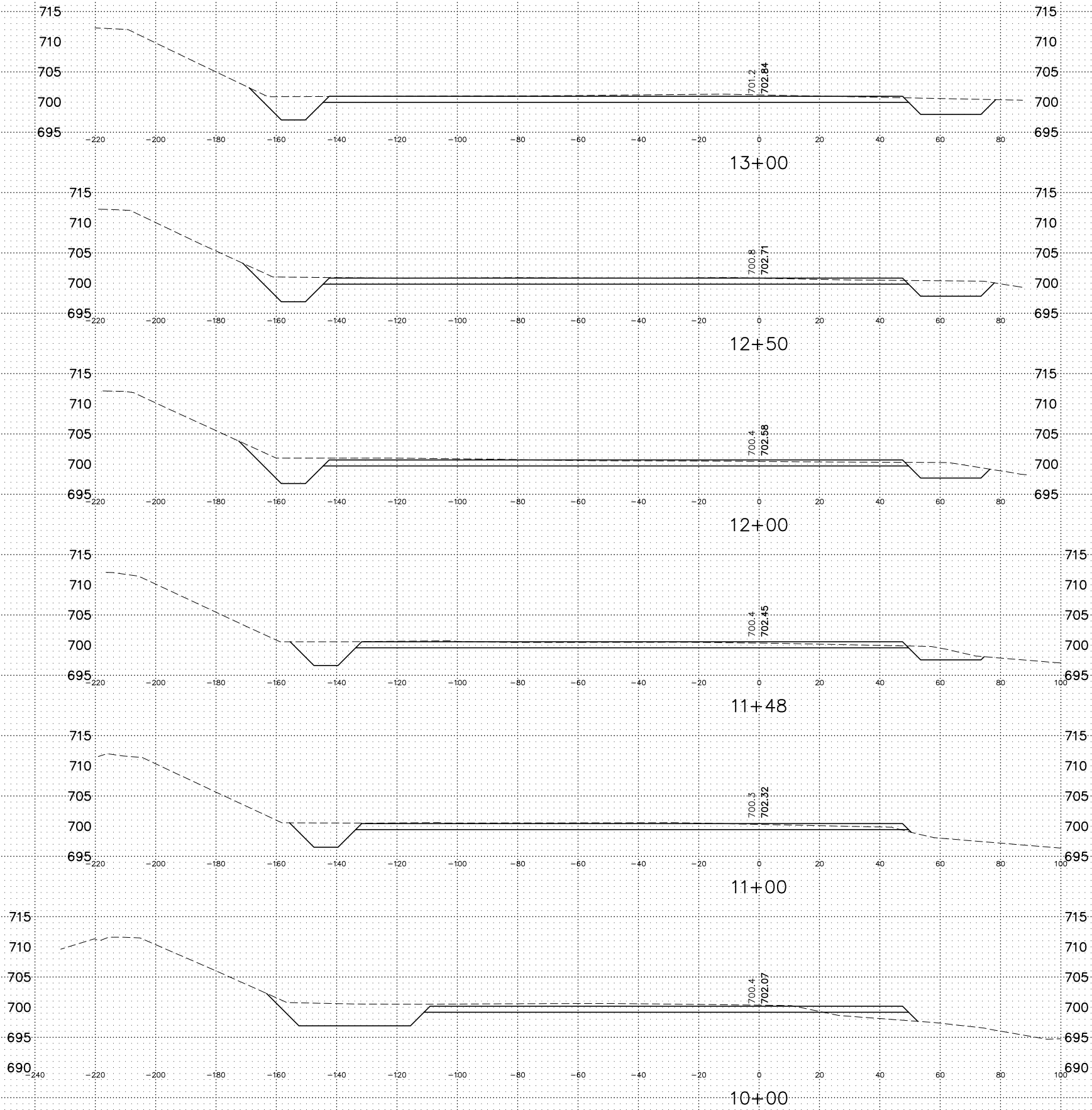
MARATHON PETROLEUM
ST. PAUL PARK, MN

ST PAUL RAIL YARD
CROSS SECTIONS

PROJECT NO.
13518.001
RECORD NO.

SHEET NO. 14 OF 20 SHEETS

FIELD BOOK:
Plot Date: 01/23/2009
Drawing Name: C:\p\marathon\ash\1351801\Rail\bases\LD0_Marathon-CP\mg\XS03.dwg
User: jehoyard



NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED	DRAWN
TRK	PJW
CHECKED	
JEH	

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE _____ LIC. NO. _____

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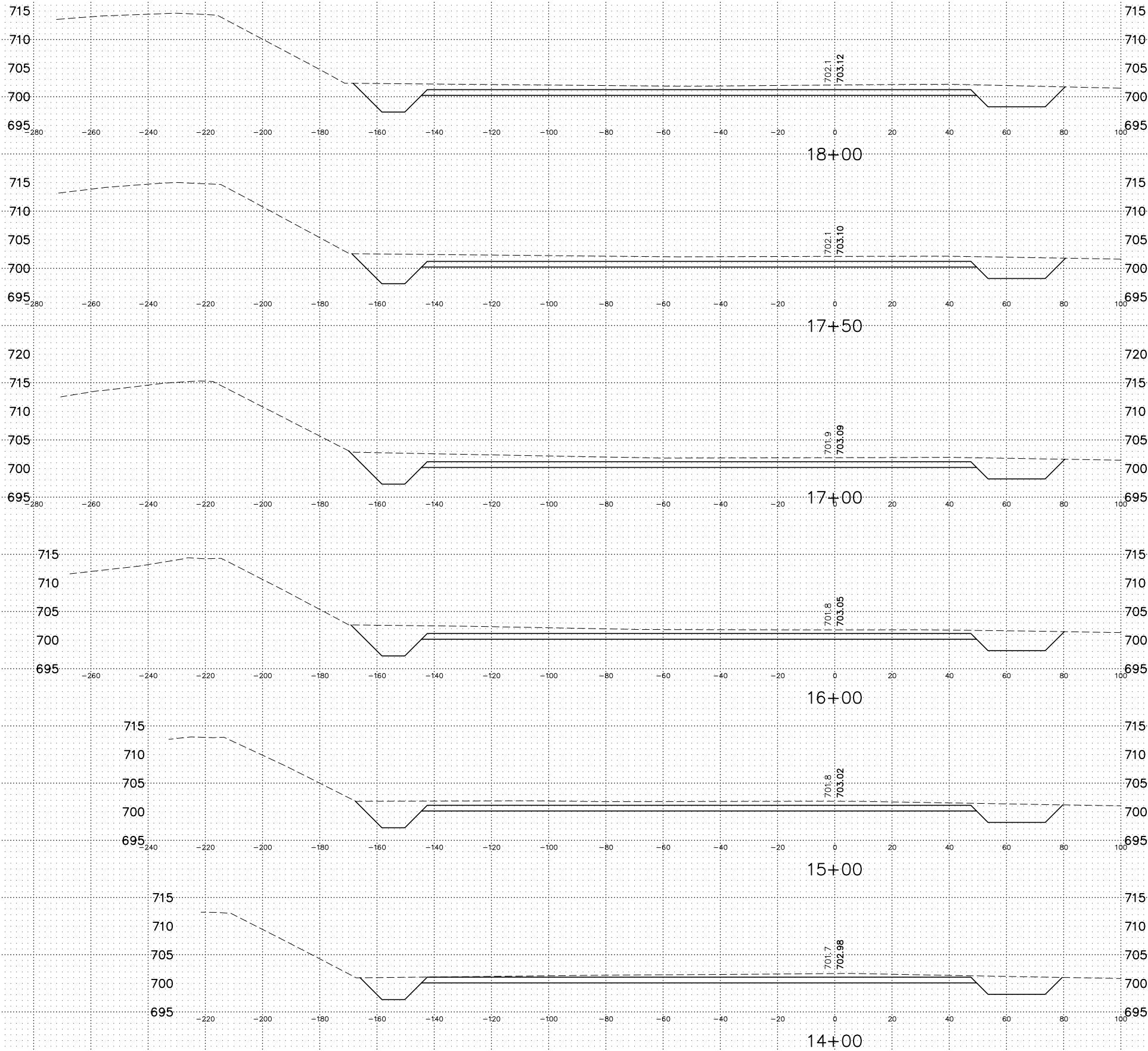


MARATHON PETROLEUM
ST. PAUL PARK, MN

ST PAUL RAIL YARD
CROSS SECTIONS

SHEET NO. 15 OF 20 SHEETS

PROJECT NO. 13518.001
RECORD NO.



FIELD BOOK:
Plot Date: 01/12/2009
Drawing Name: C:\p\m\Marathon\ash\1351801\Rail\bases\LD0_Marathon-CP\wg\XS04.dwg
User: jeh@tkda.com

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED TRK	DRAWN PJW
CHECKED JEH	
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA	
DATE _____ LIC. NO. _____	

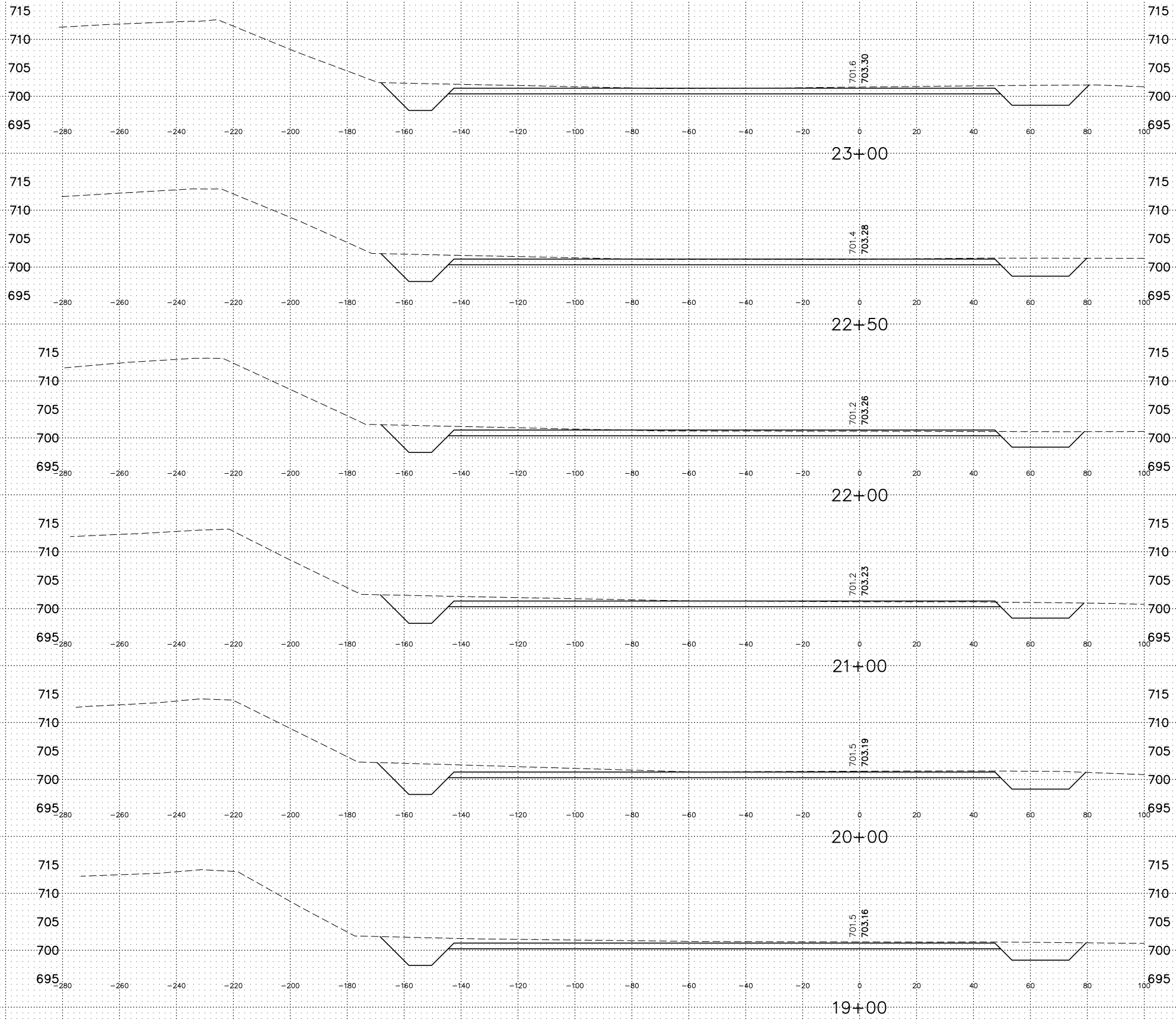


ST PAUL RAIL YARD
CROSS SECTIONS

SHEET NO. 16 OF 20 SHEETS

PROJECT NO. 13518.001
RECORD NO.

FIELD BOOK:
Plot Date: 01/12/2009
Drawing Name: C:\p\Marathon\ash\1351801\Rail\bases\LD0_Marathon-CP\wg\XS35.dwg
User: jeh



NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED	DRAWN
TRK	PJW
CHECKED	
JEH	

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BY ME OR UNDER MY DIRECT SUPERVISION AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE _____ LIC. NO. _____

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MARATHON PETROLEUM
ST. PAUL PARK, MN

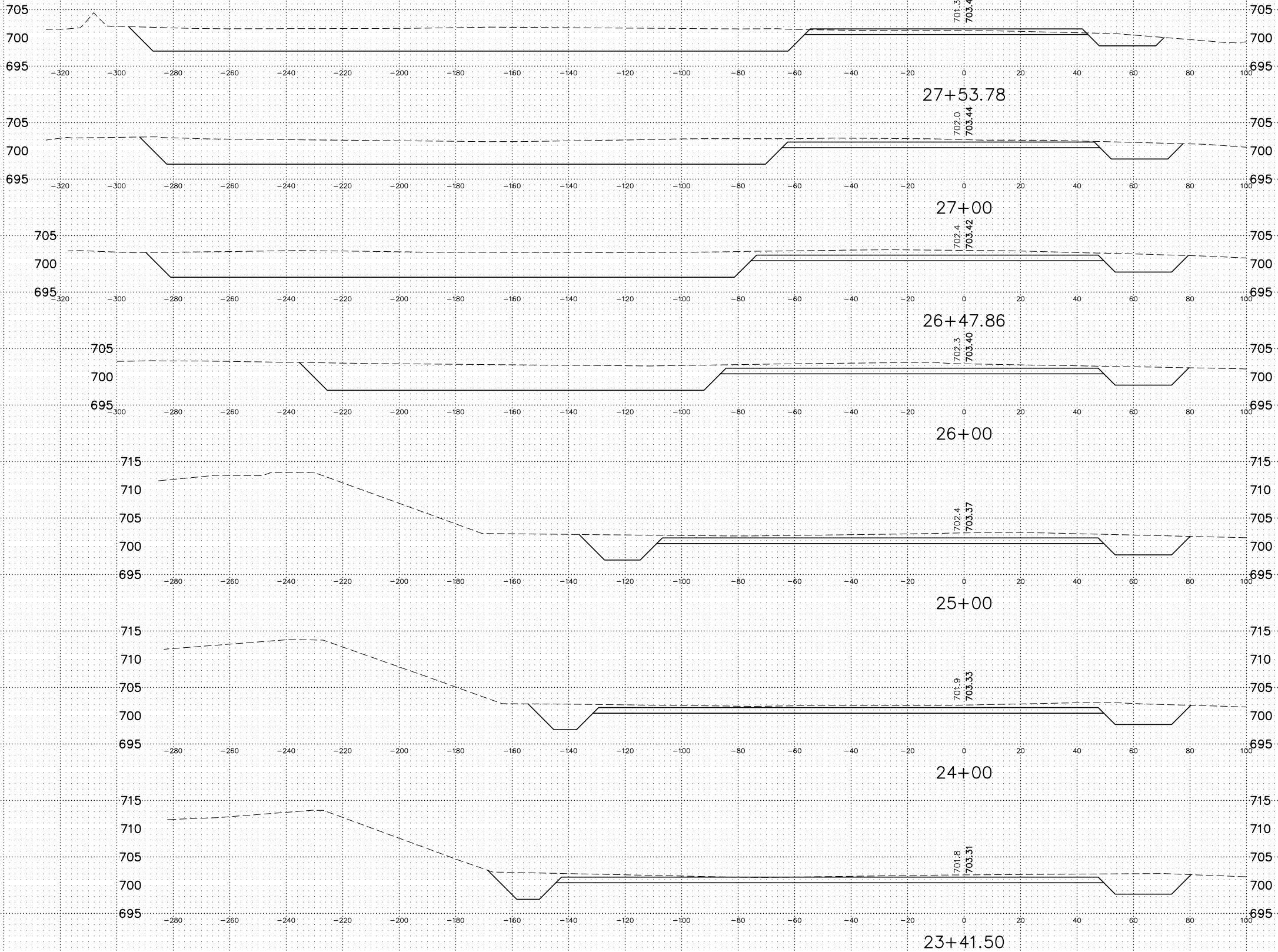
ST PAUL RAIL YARD
CROSS SECTIONS

SHEET NO. 17 OF 20 SHEETS

PROJECT NO.
13518.001

RECORD NO.

FIELD BOOK:
Plot Date: 01/12/2009
Drawing Name: C:\p\Marathon\ash\13518001\Rail\bases\LD0_Marathon-CP\wg\XS06.dwg
User: jeh@tkda.com



NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED TRK	DRAWN PJW
CHECKED JEH	
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DATE _____ LIC. NO. _____	

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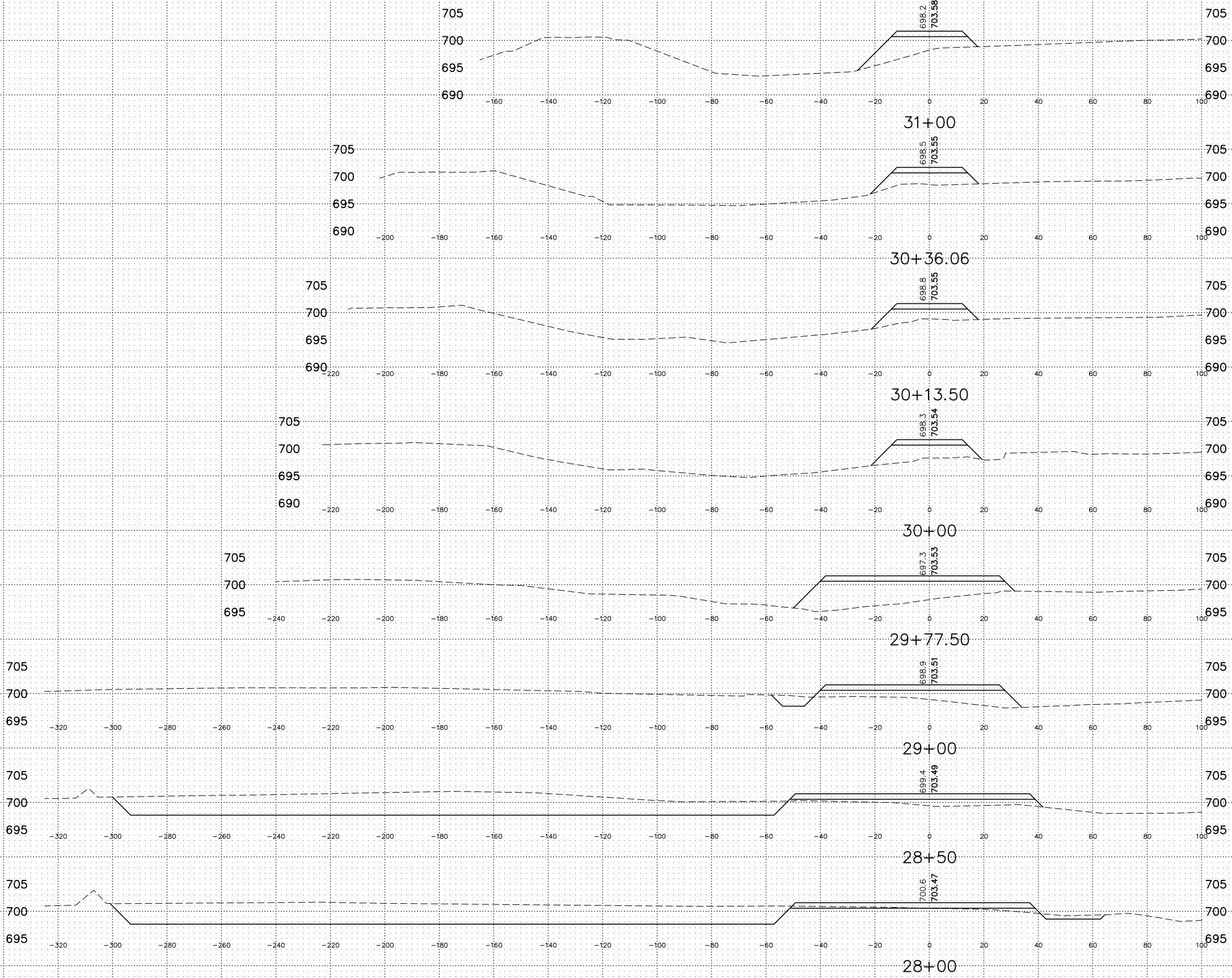
ST PAUL RAIL YARD
CROSS SECTIONS

SHEET NO. 18 OF 20 SHEETS

PROJECT NO.
13518.001

RECORD NO.

FIELD BOOK:
Plot Date: 01/12/2009
Drawing Name: C:\p-m\Marathon\ash\1351801\Rail\bases\LD0_Marathon-CP\wg\XS07.dwg
User: jeh@tkda.com



NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED TRK	DRAWN PJW
CHECKED JEH	DATE LIC. NO.

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CROSS SECTIONS

SHEET NO. 19 OF 20 SHEETS

PROJECT NO.
13518.001

RECORD NO.

FIELD BOOK:
Plot Date: 01/12/2009
Drawing Name: C:\p-m\Marathon\ash\1351801\Rail\bases\LD0_Marathon-CP\wg\XS06.dwg
User: jehoyne

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED	DRAWN	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA
TRK	PJW	
CHECKED		
JEH		
DATE		LIC. NO.

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CROSS SECTIONS

SHEET NO. 20 OF 20 SHEETS

PROJECT NO.
13518.001

RECORD NO.

